according to Regulation (EC) No. 1907/2006





## **LEXSY Cultivation Kit P10**

### IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name: LEXSY Cultivation Kit P10

Catalog Number: LT-102

Supplier: Jena Bioscience GmbH

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### 2. HAZARDS IDENTIFICATION

### GHS classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Sens. 1; H317 Resp. Sens. 1; H334

### **GHS Label elements:**

Pictogram:



Signal word: Danger

### **Hazard statements:**

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

### **Precautionary statements:**

P261: Avoid breathing vapors.

P280: Wear protective gloves / protective clothing / eye protection.
P285: In case of inadequate ventilation wear respiratory protection.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P304 + P341: IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a

position comfortable for breathing.

P333 + P313: If skin irritation or rash occurs: Get medical advice / attention.







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P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

### **Additional information:**

Laboratory chemicals must be handled only by qualified personnel and with precaution.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

### Mixtures / Hazardous components:

The kit contains the following components:

| Ingredient Name   | CAS #          | Pictogram    | H-<br>Phrase           | P-Phrase  | C (max)                           | Amount     |
|---|----------------|--------------|------------------------|---|-----------------------------------|------------|
| LT-101, LEXSY host<br>L. tarentolae strain<br>P10             | -              | -            | -                      | -   | 75 %                              | 3 x 1.6 ml |
| LEXSY BHI medium<br>complete (contains<br>Hemin and PenStrep) | -              | -            | -                      | -   | ≤ 0.01 %<br>Hemin and<br>PenStrep | 50 ml      |
| LEXSY BHI<br>(powder)   | -              | <b>(</b> )   | H315,<br>H319,<br>H335 | P280<br>P302+P352<br>P304+P341<br>P305+P351+P338              | 100 %                             | 2 x 18.5 g |
| ML-108,<br>Hemin (porcine)                                    | 16009-13-<br>5 | -            | -                      | -   | 0.25 %                            | - 2 ml     |
| ML-108,<br>Triethanolamine                                    | 102-71-6       |              |                        |   | 50 %                              |            |
| ML-105<br>Penicillin G sodium<br>salt                         | 69-57-8        | <b>&amp;</b> | H317,<br>H334          | P261, P280, P285<br>P304 + P341<br>P333 + P313<br>P342 + P311 | 1.5 %                             | 5 ml       |
| ML-105<br>Streptomycin sulfate                                | 3810-74-0      |              |                        |   | 1.5 %                             |            |
| Glycerol  | 56-81-5        | -            | -                      | -   | 80 %                              | 4 x 0.4 ml |
| Culture Flasks  | -              | -            | -                      | -   | -                                 | 3 pc.      |

### 4. FIRST AID MEASURES

**General advice:** Consult a physician. Show this material safety data sheet to the doctor in attendance. **After skin contact:** Immediately wash skin with soap and plenty of water. Consult a physician. Desinfect component 1, L. tarentolae.

**After swallowing:** Never give anything by mouth to an unconscious person. Rinse mouth with water provided person is conscious. Consult a physician.

After inhalation: Remove to fresh air. If not breathing give artificial respiration. Consult a physician.







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After eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician.

#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Use water spray, carbon dioxide, dry chemical powder or appropriate foam. **Specific hazards arising from the chemical:** Hazardous decomposition products formed under fire conditions; carbon oxides, nitrogen oxides, iron oxides and hydrogen chloride gas.

**Special Firefighting Procedures:** Wear self-contained breathing apparatus for firefighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear protective equipment. Keep unprotected persons away. Avoid dust formation. Wash contaminated clothing before reuse.

**Environmental precautions:** Do not let product enter drains.

**Method for Cleaning Up:** Keep in suitable, closed containers for disposal. Dispose contaminated material as waste according to section 13. Ventilate area, clean and disinfect spill site after material clean-up is complete. For Kit component ML-105: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

### 7. HANDLING AND STORAGE

**Handling:** Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Prevent formation of dust (LEXSY BHI powder).

**User Exposure:** Avoid inhalation. Use personal protective equipment (i.e. impermeable gloves, lab coat or appr.). **Storage:** Keep tightly closed. Store as indicated (according to section 10) at RT / 4°C / -20°C / -80°C, protect from light. Store away from food.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Measures:** Ensure adequate ventilation and cleanable resistant tightly sealed working surfaces. **Respiratory protection:** In case of insufficient ventilation wear suitable respiratory equipment. Use a dust mask for handling LEXSY BHI powder.

**Hand protection:** Handle with gloves to prevent skin contact.

**Eye protection:** Wear chemical safety goggles to prevent eye contact.

**Skin and body protection:** Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. **General Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

The Kit consists of 7 components (according to section 3)

according to Regulation (EC) No. 1907/2006





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**Appearance:** 

Form: powder / frozen / liquid

Color: beige / colorless / dark aubergine

Safety data:

pH 6, pH 8, pH 10 pH: No data available Melting point: 100°C; N/A. Boiling point: Flash point: No data available No data available Ignition temperature: Thermal decomposition: No data available Self-igniting: No data available No data available Danger of explosion: Vapor pressure: No data available

Solubility in / Miscibility with water: 37 g/L in water (BHI powder)

Segregation coefficient

(n-octanol / water):

Viscosity, dynamic:

No data available

No data available

### 10. STABILITY AND REACTIVITY

Reactivity: No data available

**Chemical stability:** Stable under recommended storage conditions at room temperature for 3 years (Brain Heart Infusion powder (LEXSY BHI powder)), at 4°C for 2 weeks in the dark (LEXSY BHI medium complete), at 4°C for 6 months in the dark (ML-108), at -20°C for 6 months (ML-105) and at -80°C for 6 months (LT-101).

Possibility of hazardous reactions: No data available

Conditions to avoid: Heat, strong oxidizing agents, strong acids, high or low pH, sodium hypochlorite.

**Incompatible materials:** Strong oxidizing agents, strong bases.

**Hazardous decomposition products:** 

Kit component ML-108: Thermal decomposition can lead to release of irritating gases and vapors such as carbon oxides.

### 11. TOXICOLOGICAL INFORMATION

For detailed description, refer to the respective MSDS of components (Cat.-No. ML-105 and ML-108).

**Acute toxicity:** Kit component ML-108 (Hemin):

LD50 oral: 30g/kg rat

Chronic exposure may cause nausea and vomiting, higher exposure causes

unconsciousness.

Kit component Glycerol: LD50 oral: 12.6g/kg rat;

according to Regulation (EC) No. 1907/2006





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LD50 dermal: >18.7g/kg rabbit

**Signs / Symptoms of exposure:** Kit component ML-108:

Local effects: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Specific effects: May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea,

vomiting, headache.

**Skin corrosion/irritation:** No data available. **Serious eye damage/irritation:** No data available.

Respiratory or skin sensitization: Kit component LEXSY BHI powder:

May be harmful if inhaled. Material is irritating to mucous membranes and

upper respiratory tract.

Kit component ML-105:

Prolonged or repeated exposure may cause allergic reactions in certain

sensitive individuals. May cause allergic skin reactions.

**Germ cell mutagenicity:** No data available.

Carcinogenicity:

Reproductive toxicity:

No data available.

No data available.

**Additional information:** RTECS: No data available (LEXSY BHI)

RTECS: No data available (Hemin)
RTECS: KL9275000 (Triethanolamine)
RTECS: WK4990000 (Streptomycin sulfate)
RTECS: XH9800000 (Penicillin G sodium salt)

RTECS: MA8050000 (Glycerol)

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Kit component Glycerol: Toxicity to fish LC50 - Carassius auratus - >5000

mg/l - 48 h; Toxicity to daphnia EC50 - Daphnia magna - > 10000 mg/l -

24 h

Persistence and degradability: Biodegradability (Triethanolamine), BHI media and DNA preparations are

degradable.

Bioaccumulative potential:

Mobility in soil:

No data available No data available

General notes: Kit component LEXSY BHI powder and ML-105: Generally not hazardous for

water.

Kit component ML-108: May cause long-term adverse effects in the aquatic environment. Do not flush into surface water or sanitary sewer system.

Results of PBT and vPvB assessment:

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PBT: No data available vPvB: No data available

#### 13. DISPOSAL CONSIDERATIONS

**Product:** Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. The material for disposal should be mixed with, or dissolved in, a combustible solvent and burnt in a chemical incinerator equipped with an afterburner scrubber. BHI media, cultures and DNA preparations can be autoclaved (20 min 121°C) and disposed of together with household garbage. **Contaminated Packaging:** Kit component LEXSY BHI powder and ML-108: Dispose of as unused product. Kit component ML-105: Disposal must be made according to official regulations.

Cleansing agents: Kit component ML-105: Water, if necessary together with cleansing agents.

#### 14. TRANSPORT INFORMATION

ADR / RID:

DOT (US):

IMDG:

Not dangerous goods

#### 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

# 15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture:

No data available

### 15.2 Australian Inventory of Chemical Substances in LEXSY BHI powder:

| CAS #     | Substances                |
|-----------|---------------------------|
| 7647-14-5 | Sodium chloride           |
| 7558-79-4 | Sodium phosphate, dibasic |
| 50-99-7   | Dextrose                  |

### 15.3 Chemical Safety Assessment: No data available

### 16. OTHER INFORMATION

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified

according to Regulation (EC) No. 1907/2006





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individual experienced in handling potentially hazardous chemicals. Users should make independent decisions regarding completeness of the information based on all sources available.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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